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FOR OFFICIAL USE ONLY CENTRAL INTELLIGENCE AGENCY REPORT INFORMATION FROM FOREIGN DOCUMENTS OR RADIO BROADCASTS CD **COUNTRY** USBR DATE OF 1943 INFORMATION SUBJECT Scientific - Chemistry, lubricants, standards HOW DATE DIST. 17 Jan 1952 **PUBLISHED** Pamphlet WHERE **PUBLISHED** NO. OF PAGES Moscow DATE **PUBLISHED** 1943 SUPPLEMENT TO LANGUAGE Russian REPORT NO. THIS IS UNEVALUATED INFORMATION STAT SOURCE GOST 3275-46,

## USSR STANDARD FOR NK-30 NONFREEZING LUBRICANT "UM" (GOST 3275-46)

## (Petroleum Industry B 24)

1. This standard deals with the consistent lubricant intended for lubricating the parts of aircraft control systems, and friction units operating in the temperature range from -60 to +  $65^{\circ}$  C.

2.	Composition of the lubricant
vegetabl	a. Calcium-sodium soap by hydrogenated vegetable NKPP 439) or a mixture of 60 parts of hydrogenated e fat (OST NKPP 439) and 40 parts of commercialimal fat (GOST 1045-41)

8 ± 2

b. Lead acetate

0.15

Percent by Wt

c. Vaseline distillate of viscosity 1.4-1.7 (Engler) at 50°C with a freezing point not be benefit C with a freezing point not higher than

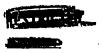
kemainder

- 3. The lubricant rust fuifill the following physicochemical requirements:
- a. Appearance and properties: uniform, slightly granular paste, light yellow to dark brown in color.
- . b. The lubricant, applied in a layer about 1 mm thick on a glass plate, upon inspection over a light source, must be uniform and without clots.

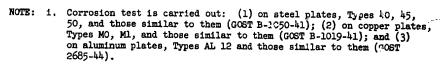
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	Phy	vsicochemical Properties	Values	Test Method			
L	1.	Penetration (Richardson) at 25°C within	290-360	OST NKTP 7872/2292, M.I. 6a-36			
	2.	Drop point (Ubbelohde) not lower than	90° C	OST NKTP 7872/2292, M.I. 7zh-36			
	3.	Content of free alkali in terms of Na^H, not more than	0.1%	OST NKTP 7872/2292, M.I. 25k-37			
	4.	Corrosion test on steel, copper, and aluminum plates, $48~\mathrm{hr}$ at $60^{\circ}~\mathrm{C}$	Passes	GOST 1037-41			
	5.	Mechanical impurities, not more than	0.03%	OST NKTP 7872/2292, M.I. 191-37			
	6.	Ash content, not more than	2 <b>.24</b>	OST NKTP 7872/2232, M.I. 26v-36			
	7.	Water content, not more than	0.3%	GOST 1044-41			



- ii. No content of sand or other abrasive material is permitted.
- $4\,.\,$  Packing, labeling, storage, transport, and inspection are carried out in accordance with GOST 1510-45.
- 5. Selection of samples of lubricant is carried out in accordance with 30ST 2517-44. One kg of lubricant is set aside for a control sample.

Proposed by Ministry of Petroleum Industry of South and West Regions of USSR.

Approved by All-Union Committee on Standards 21 August 1946. Effective 1 November 1946.

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